

51

Page 2-A VAR G1=CH2/14/21 VAR G2=CH3/28/35/42 NODE ATTRIBUTES: CONNECT IS E1 RC AT CONNECT IS E1 RC AT 18 CONNECT IS E1 RC AT 24 CONNECT IS E1 RC AT 31 CONNECT IS E1 RC AT 32 CONNECT IS E1 RC AT 38 CONNECT IS E1 39 RC AT CONNECT IS E1 RC AT 45 CONNECT IS E1 RC AT 51
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 55

STEREO ATTRIBUTES: NONE

L9 8 SEA FILE=REGISTRY SSS FUL L7

L10 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L9

=> d ibib abs hitstr ind 110 1-12

L10 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:546122 HCAPLUS

DOCUMENT NUMBER: 135:257023

SOURCE:

TITLE: Palladium-catalyzed .alpha.-arylation of esters

AUTHOR(S): Moradi, Wahed A.; Buchwald, Stephen L.

CORPORATE SOURCE: \ Department of Chemistry, Massachusetts Institute of

Technology, Cambridge, MA, 02139, USA

Journal of the American Chemical Society (2001),

123(33), 7996-8002

COPEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:257023

A new and simple one-pot procedure for the palladium-catalyzed intermol. .alpha.-arylation of esters is described. A no. of esters, e.g. MeCO2CMe3, can be functionalized with a wide range of aryl bromides, e.g. 2-MeC6H4Br, using Pd(OAc)2 or Pd2(dba)3 and bulky electron-rich o-biphenyl phosphines. Under the reaction conditions, using LiHMDS as base, .alpha.-arylation proceeds at room temp. or at 80.degree.C with very good yields and high selectivities for monoarylation. Important nonsteroidal antiinflammatory drug derivs. such as (.+-.)-naproxen tert-Bu ester and (.+-.)-flurbiprofen tert-Bu ester can be prepd. in 79% and 86% yield, resp. The catalyst system based on the o-biphenyl contg. a dimethylamino group and di-tert-butylphosphine moiety is also active for the .alpha.-arylation of esters using aryl chlorides. Furthermore, using a bipnaphthyl di-tert-butylphosphine ligand, the .alpha.-arylation of trisubstituted ester enolates can be accomplished to provide compds. that have quaternary centers.

IT 362523-48-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (palladium-catalyzed .alpha.-arylation of esters with aryl halides using biphenyl/binaphthyl phosphine ligands)

RN 362523-48-6 HCAPLUS

CN Benzeneacetic acid, .alpha.-methyl-4-phenoxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

NAS

DOCUMENT NUMBER:

TITLE:

AUTHOR(S):

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25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
CC
     arylation ester palladium biphenyl binaphthyl ligand catalyst
ST
ΙT
     Arylation
     Arylation catalysts
        (palladium-catalyzed .alpha.-arylation of esters with aryl halides
        using biphenyl/binaphthyl phosphine ligands)
     Aryl halides
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (palladium-catalyzed .alpha.-arylation of esters with aryl halides
        using biphenyl/binaphthyl phosphine ligands)
     3375-31-3, palladium(II) acetate 51364-51-3, Pd2(dba)3
                                                                 213697-53-1
TT
                   224311-52-8
     224311-49-3
     RL: CAT (Catalyst use); USES (Uses)
        (palladium-catalyzed .alpha.-arylation of esters with aryl halides
        using biphenyl/binaphthyl phosphine ligands)
     92-66-0, 1-Bromo-4-phenylbenzene 95-46-5, 2-Bromotoluene
                                                                  101-55-3,
IT
     1-Bromo-4-phenoxybenzene
                               101-97-3, Ethyl 2-phenylacetate
                                                                  103-64-0,
                            106-38-7, 4-Bromotoluene
     1-Bromo-2-phenylethene
                                                         106-43-4,
                      108-37-2, 1-Bromo-3-chlorobenzene
                                                           401-78-5,
     4-Chlorotoluene
     1-Bromo-3-(trifluoromethyl)benzene
                                         460-00-4, 1-Bromo-4-fluorobenzene
                                    576-22-7, 1-Bromo-2,6-dimethylbenzene
     540-88-5, tert-Butyl acetate
     580-13-2, 2-Bromonaphthalene 586-77-6, 1-Bromo-4-(dimethylamino)benzene
     623-12-1, 1-Chloro-4-methoxybenzene
                                          2039-88-5, 1-Bromo-2-vinylbenzene
     2308-38-5, tert-Butyl butanoate 5111-65-9, 2-Bromo-6-methoxynaphthalene
                 7005-72-3, 1-Chloro-4-phenoxybenzene
                                                        7073-94-1,
     5892-99-9
                                   7452-79-1, Ethyl 2-methylbutanoate
     1-Bromo-2-(isopropyl)benzene
     20487-40-5, tert-Butyl propanoate 23786-14-3
                                                     41604-19-7,
                                       59247-47-1, tert-Butyl 4-bromobenzoate
     1,1'-Biphenyl, 4-bromo-2-fluoro
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (palladium-catalyzed .alpha.-arylation of esters with aryl halides
        using biphenyl/binaphthyl phosphine ligands)
IT
     5359-57-9P
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                                                           63860-06-0P
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     68825-45-6P
                   93579-03-4P
                                 124853-54-9P
                                                138623-00-4P
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     362523-54-4P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (palladium-catalyzed .alpha.-arylation of esters with aryl halides
        using biphenyl/binaphthyl phosphine ligands)
                               THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                         53
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L10 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN
                         2001:279024 HCAPLUS
ACCESSION NUMBER:
```

selective MMP inhibitors

Novel 5,5-disubstituted pyrimidine-2,4,6-triones as

Foley, L. H.; Palermo, R.; Dunten, P.; Wang, P.

135:92596

CORPORATE SOURCE:

Roche Research Center, Hoffmann-La Roche Inc., Nutley,

NJ, 07110, USA

Bioorganic & Medicinal Chemistry Letters (2001)

11(8), 969-972

CODEN: BMCLE8; ISSN: 0960-894X

Elsevier Science Ltd.

Journal English

CASREACT 135:92596

GT

SOURCE:

PUBLISHER:

LANGUAGE:

DOCUMENT TYPE:

OTHER SOURCE(S):

A Date

The 5,5-disubstituted pyrimidine-2,4,6-triones I (R1 = H, Me, Et hexyl, HOCH2CH2, PhCH2OCH2; R2 = Ph, 4-PhC6H4, 4-PhOC6H4, 4-octyl-OC6H4; R3 = H, Me) were prepd. and shown to be a novel and non-toxic class of matrix metalloproteinase (MMP) inhibitors showing selectivity for the gelatinases A and B, collagenase-3, and human neutrophil collagenase. The selectivities shown for MMPs-2, -8, -9, and -13 make I very attractive antitumor agents.

IT 349148-14-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of disubstituted pyrimidine triones as selective matrix
metalloprotein (MMP) inhibitors)

RN 349148-14-7 HCAPLUS

CN Propanedioic acid, methyl(4-phenoxyphenyl)-, dimethyl ester (9CI) (CA INDEX NAME)

- CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 1
- ST pyrimidine trione prepn gelatinase inhibitor; matrix metalloprotein inhibitor pyrimidine trione
- IT Antitumor agents

(prepn. of disubstituted pyrimidine triones as selective matrix metalloprotein (MMP) inhibitors)

```
288102-94-3P
IT
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL
     (Biological study); PREP (Preparation); RACT (Reactant or reagent).
        (prepn. of disubstituted pyrimidine triones as selective matrix
       metalloprotein (MMP) inhibitors)
                             94209-48-0P
                                            219311-20-3P 288102-95-4P
                67051-21-2P
     76-94-8P
ΙT
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                                   288102-99-8P
                                                  349148-09-0P
                                                                 349148-10-3P
     288102-96-5P
     349148-11-4P
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     study, unclassified); SPN (Synthetic preparation); BIOL (Biological
     study); PREP (Preparation)
        (prepn. of disubstituted pyrimidine triones as selective matrix
        metalloprotein (MMP) inhibitors)
     146480-35-5, Gelatinase A 146480-36-6, Gelatinase B
IT
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (prepn. of disubstituted pyrimidine triones as selective matrix
        metalloprotein (MMP) inhibitors)
                                                           288103-02-6
                              288103-00-4
                                             288103-01-5
ΙT
     21490-51-7 65749-05-5
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     288103-04-8
     349148-15-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (prepn. of disubstituted pyrimidine triones as selective matrix
        metalloprotein (MMP) inhibitors)
REFERENCE COUNT:
                         14
                            THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
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L10 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN
                         1997:44662 HCAPLUS
ACCESSION NUMBER:
                         126:59751
DOCUMENT NUMBER:
                         Preparation of di- and tricarboxybenzamides and
TITLE:
                         analogs as squalene synthetase and protein
                         farnesyltransferase inhibitors
                         Baker, William R.; Rosenberg, Saul H.; Fung, K. L.
INVENTOR(S):
                         Anthony; Rockway, Todd W.; Fakhoury, Stephen A.;
                         Garvey, David S.; Donner, B. Gregory; O'Connor,
                         Stephen J.; Prasad, Rajnandan N.; Shen, Wang; Stout,
                         David M.; Sullivan, Gerard M.
PATENT ASSIGNEE(S):
                         Abbott Laboratories, USA
SOURCE:
                         PCT Int. Appl., 241 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
                         English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                          APPLICATION NO. DATE
     PATENT NO.
                      KIND
                            DATE
                            19961107
                                           WO 1996-US6193
                                                            19960502
                      A1
     WO 9634851
         W: AU, CA, JP, KR, MX
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
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                                        US 1995-429095
PRIORITY APPLN. INFO.:
                                                            19950503
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                                                            19960429
                                        US 1993-147708
                                                            19931104
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US 1994-289711 19940909 US 1994-322783 19941018 WO 1996-US6193 19960502

OTHER SOURCE(S):

MARPAT 126:59751

A¹
A²
A³

 A^4

I

AB Title compds. [e.g., I; A1 = ZCONR1R2; A2,A4, and A5 or A2 and A4 or A3and A4 = (protected) CO2H and the other An = H; R1 = (chloro)benzyl, (CH2)2-4Ph, CH2C6H4(OPh)-4; R2 = (CH2)1-2C6H4(OPh)-4; Z = bond, NR, O; R = H, (cyclo)alkyl, aralkyl, cycloalkylalkyl] were prepd. Thus, 4-(PhO)C6H4CHO was reductively aminated by H2CH2Ph and the product amidated by 1,2,4,5-benzenetetracarboxylic dianhydride to give title compd. II. Data for in vitro inhibition of protein farnesyltransferase by selected I were given.

IT 185051-02-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of di- and tricarboxybenzamides and analogs as squalene synthetase and protein farnesyltransferase inhibitors)

RN 185051-02-9 HCAPLUS

CN Benzenepropanoic acid, 4-phenoxy-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{CH}_2\text{--}\text{CH}_2\text{--}\text{C}\text{--}\text{OMe} \end{array}$$

IC ICM C07C233-73

ICS C07C233-65; C07C235-38; C07D257-04; C07C275-42; C07C335-22; C07C233-12; C07D333-20

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds) Section cross-reference(s): 1

ST carboxybenzamide squalene synthetase protein farnesyltransferase inhibitor

IT Artery, disease

(coronary, restenosis, prevention; prepn. of di- and tricarboxybenzamides and analogs as squalene synthetase and protein farnesyltransferase inhibitors)

IT Ras proteins

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(farnesylation; prepn. of di- and tricarboxybenzamides and analogs as

```
squalene synthetase and protein farnesyltransferase inhibitors)
     Antitumor agents
IT
        (prepn. of di- and tricarboxybenzamides and analogs as squalene
        synthetase and protein farnesyltransferase inhibitors)
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                    185050-23-1P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (prepn. of di- and tricarboxybenzamides and analogs as squalene
        synthetase and protein farnesyltransferase inhibitors)
ΙT
     131384-38-8, Protein farnesyltransferase
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (prepn. of di- and tricarboxybenzamides and analogs as squalene
        synthetase and protein farnesyltransferase inhibitors)
IT : 170433-63-3P, 1,2-Benzenedicarboxylic acid, 4-hydroxymethyl-, dimethyl
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ester RL: BYP (Byproduct); PREP (Preparation) (prepn. of di- and tricarboxybenzamides and analogs as squalene synthetase and protein farnesyltransferase inhibitors) 61-54-1, 3-(2-Aminoethyl)indole 65-49-6, 4-Aminosalicylic acid IT67-36-7, 4-Phenoxybenzaldehyde 85-44-9, 1,3-Isobenzofurandione 89-32-7 89-51-0, Homophthalic acid 89-57-6, 5-Aminosalicylic acid 89-93-0, 93-09-4, 2-Naphthoic acid 93-55-0, Propiophenone 2-Methylbenzylamine 95-65-8, 3,4-Dimethylphenol 96-32-2, Methyl 95-48-7, reactions 100-20-9, 99-63-8, 1,3-Benzenedicarbonyl dichloride bromoacetate 100-46-9, 1,4-Benzenedicarbonyl dichloride 100-39-0, Benzyl bromide 100-51-6, Benzyl alcohol, reactions 100-52-7, Benzylamine, reactions Benzaldehyde, reactions 100-81-2, 3-Methylbenzylamine 101-53-1, 103-49-1, Dibenzylamine 103-63-9, Phenethyl 4-Hydroxydiphenylmethane bromide 106-44-5, 4-Methylphenol, reactions 106-48-9, 4-Chlorophenol 108-39-4, 3-Methylphenol, reactions 118-31-0, 1-Naphthylmethylamine 150-76-5, 4-Methoxyphenol 459-57-4, 4-Fluorobenzaldehyde 138-25-0 527-60-6, 2,4,6-Trimethylphenol 552-30-7 556-56-9, Allyl iodide 569-51-7, 1,2,3-Benzenetricarboxylic acid 610-22-0, Dimethyl 4-nitrophthalate 699-98-9, 2,3-Pyridinedicarboxylic anhydride 703-59-3, Homophthalic anhydride 1204-28-0, 4-Chlorocarbonylphthalic 1758-46-9, 2-Phenoxyethylamine 1955-46-0, 3-Nitroisophthalic anhydride acid monomethyl ester 2038-57-5, Benzenepropanamine 2045-79-6, 2-Methoxyphenethylamine 2217-40-5, 1-Amino-1,2,3,4-Tetrahydronaphthalene 2270-20-4, 5-Phenylpentanoic acid 2393-23-9, 4-Methoxybenzylamine 2420-87-3, [5,5'-Biisobenzofuran]-1,1',3,3'-tetrone 2421-28-5 2426-87-1, 4-Benzyloxy-3-methoxybenzaldehyde 2672-58-4, 1,3,5-Benzenetricarboxylic acid, trimethyl ester O-Benzylhydroxylamine hydrochloride 2740-83-2, 3-2975-41-9, 2-Aminoindane 2835-06-5 Trifluoromethylbenzylamine 3082-77-7, L-Methionine ethyl 3048-01-9, 2-Trifluoromethylbenzylamine 3113-72-2, 5-Methyl-2-nitrobenzoic acid 3132-99-8, 3218-02-8, Cyclohexanemethanamine 3218-36-8, 3-Bromobenzaldehyde 3711-01-1, 2,3,6,7-4-Phenylbenzaldehyde 3669-48-5 3731-51-9, 2-Pyridylmethylamine Naphthalenetetracarboxylic dianhydride 3731-52-0, 3-Pyridylmethylamine 3731-53-1, 4-Pyridylmethylamine 3939-09-1, 2,4-Difluorobenzonitrile 4360-51-4, 1-Amino-3-phenyl-2-4393-09-3, 2,3-DiMethoxybenzylamine 4397-53-9, 4442-59-5, 1,4-Benzodioxan-2-methylamine 4-Benzyloxybenzaldehyde 4821-94-7, 4,5-Dimethoxyphthalic anhydride 5326-47-6, 2-Amino-5-iodobenzoic acid 5372-81-6, Dimethyl aminoterephthalate 5736-88-9, 4-Butoxybenzaldehyde 5470-84-8, 4-Benzyloxybutyraldehyde 5927-18-4, 5870-38-2, Diethyl 2,5-dihydroxyterephthalate 6050-13-1, Diphenic anhydride 6287-38-3, Trimethylphosphonoacetate 6328-74-1, 4-Phenoxyphenylacetic acid 3,4-Dichlorobenzaldehyde 6921-34-2, Benzylmagnesium chloride 6850-57-3, 2-Methoxybenzylamine 7355-22-8, 5-Bromo-2, 4-dihydroxybenzoic acid 7409-30-5, 4-Nitrobenzylamine 7617-76-7, 3-Phenoxypropylamine 7745-93-9, 2-Bromo-4-nitrotoluene 13214-66-9, 4-Phenylbutylamine 17532-66-0, 1,2-Benzenediacetic acid, diethyl ester 18655-51-1, 3-(2-19434-34-5, 2-Phenoxybenzaldehyde 19014-14-3 Methoxyphenyl)propylamine 20116-65-8, Dimethyl 4-methylphthalate 22117-85-7 20781-22-0 22479-95-4, Dimethyl 4-hydroxyphthalate 24541-01-3, 22440-62-6 24850-33-7, Allyltributyltin 26759-46-6 4-Chromanone oxime 27757-85-3, 2-Thiophenemethanamine 28994-41-4, 2-Hydroxydiphenylmethane 37806-29-4, 2-Ethoxybenzylamine 37806-49-8, 34698-41-4, 1-Aminoindane

Benzenemethanamine, 2-(3-methylbutoxy)- 37806-66-9 39515-51-0,

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     40663-68-1, 4-Allyloxybenzaldehyde
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     Butoxycarbonylbenzenemethanamine
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                                                      60728-41-8
                                                                   69770-20-3,
                                       69770-23-6, 3-(4-tert-
     3-(4-Chlorophenoxy) benzaldehyde
                                 72235-53-1, 3,4-Difluorobenzylamine
     Butylphenoxy) benzaldehyde
     79124-75-7, 3-(4-Methylphenoxy)benzaldehyde
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     3-(3,4-Dichlorophenoxy)benzaldehyde
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     benzotriazolyl)methane
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     N-Benzyl-2-fluorenylmethylamine
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (prepn. of di- and tricarboxybenzamides and analogs as squalene
        synthetase and protein farnesyltransferase inhibitors)
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     dicarboxylic acid
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     39585-32-5P, Benzeneacetic acid, 2-carboxy-5-nitro-
                                                            40172-06-3P,
     N-(3,4-Dichlorobenzyl)ethanolamine 46253-86-5P
                                                         51832-31-6P, Dimethyl
                        52446-51-2P, 2-(4-Phenoxyphenyl)ethanol
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     4-Aminochroman
                                              69048-70-0P, Dimethyl
     64481-29-4P
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                   67402-72-6P
                                        76784-89-9P, Benzeneacetic acid,
     4-nitroisophthalate 74733-34-9P
                                                                 91345-28-7P
                                                  79807-86-6P
     5-amino-2-(methoxycarbonyl)-, methyl ester
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     1,2-Benzenedicarboxylic acid, 4-mercapto-, dimethyl ester
                                                                  129951-06-0P,
     Benzenebutanamine, N-phenylmethyl- 136534-67-3P, Benzenepentanamine,
                      138408-68-1P, Methyl 4-hydroxy-2-methoxy-5-vinylbenzoate
     N-phenylmethyl-
     144146-84-9P, N-Benzyl-5-phenylPentanamide
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     4-(carboxymethyl)phthalate
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     185050-80-0P, 2-Methoxy-4,5-divinylbenzoic acid
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185051-67-6P
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of di- and tricarboxybenzamides and analogs as squalene synthetase and protein farnesyltransferase inhibitors)

L10 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

1994:442116 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 121:42116

Study on the source of nonvolatile mutagenic organics TITLE: in the water of East Lake and the tap water from it

Tian, Shizhong; Huang, Zhidan; Deng, Nansheng; Zhang, AUTHOR(S): Jiayao; Zhao, Pihong; Xiao, Mei; Liu, Dazhi; Zhizhong,

Jing; Meilan, Wang; Xizhao, Yuan

Dep. Environ. Sci., Wuhan Univ., Wuhan, 430072, Peop. CORPORATE SOURCE:

Rep. China

Zhongguo Huanjing Kexue (1993), 13(2), 100-5 SOURCE:

CODEN: ZHKEEI; ISSN: 1000-6923

Journal DOCUMENT TYPE: LANGUAGE: Chinese

A total of 102 org. pollutants (alkylbenzenes, polycyclic arom. hydrocarbons, phthalic esters, etc.) in East Lake and the tap water from it were identified by gas chromatog.-mass spectrometry. Ames test results showed that they have mutagenicity to TA98, and are direct mutagens. Model test of chlorination of humic acid or fulvic acid showed that humics of low concn. in water do not form nonvolatile mutagenic orgs. and

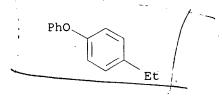
nonvolatile mutagenic orgs. in the tap water from East Lake. ΙT 36207-23-5

RL: BIOL (Biological study)

(lake water and potable water pollution by, Salmonella typhimurium toxicity in relation to, of East Lake, China)

RN36207-23-5 HCAPLUS

Benzene, 1-ethyl-4-phenoxy- (9CI) (CA INDEX NAME) CN



CC 61-2 (Water)

Section cross-reference(s): 4, 10

org water pollution East Lake China; Salmonella typhimurium toxicity org ST lake pollution; Ames test toxicity org water pollution

ITWater pollution

(by org. compds., of lake water and potable water, Salmonella typhimurium toxicity in relation to, of East Lake, China)

Organic compounds, biological studies IT

```
RL: BIOL (Biological study) ·
        (lake water and potable water pollution by, Salmonella typhimurium
       toxicity in relation to, of East Lake, China)
IT
        (of org. compds. in polluted lake water and potable water, to
       Salmonella typhimurium strain TA-98, Ames test detn. of, of East Lake,
       China)
    Salmonella typhimurium
ΙT
        (strain TA-98, polluted lake and potable water toxicity to, Ames test
       for, of East Lake, China)
                                                   64-19-7, Acetic acid,
     57-10-3, Hexadecanoic acid, biological studies
IT
                        67-66-3, Trichloromethane, biological studies
     biological studies
     71-43-2, Benzene, biological studies 75-27-4, Bromodichloromethane
    75-65-0, Tert-Butanol, biological studies
                                               84-66-2, Diethyl phthalate
     84-69-5, Diisobutyl phthalate 84-74-2, Dibutyl phthalate 86-73-7,
                                                        95-16-9,
               91-20-3, Naphthalene, biological studies
                    95-50-1, o-Dichlorobenzene 100-41-4, Ethylbenzene,
     Benzothiazole
                        100-42-5, biological studies
                                                      100-52-7,
     biological studies
    Benzaldehyde, biological studies 106-46-7, p-Dichlorobenzene
                                                                    108-88-3,
    Toluene, biological studies 108-90-7, Chlorobenzene, biological studies
    110-54-3, Hexane, biological studies 110-82-7, Cyclohexane, biological
             110-93-0, 6-Methyl-5-heptene-2-one 111-27-3, Hexanol,
     biological studies 111-65-9, Octane, biological studies 111-84-2,
    Nonane 112-30-1, Decanol 112-95-8, Eicosane
                                                    117-81-7, Dioctyl
                                                        124-48-1,
     phthalate 120-12-7, Anthracene, biological studies
    Dibromochloromethane 128-37-0, 2,6-Ditert-butyl-4-methylphenol,
    biological studies 128-39-2, 2,6-Di-tert-butylphenol
     140-29-4, Benzylcyanide 206-44-0, Fluoranthene 486-25-9,
                                  535-77-3, 1-Methyl-3-isopropylbenzene
     9H-Fluoren-9-one 489-84-9
     541-73-1, m-Dichlorobenzene 544-63-8, Tetradecanoic acid, biological
             593-45-3, Octadecane 629-78-7, Heptadecane 629-92-5,
                                       629-97-0, Docosane
                629-94-7, Heneicosane
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    Nonadecane
                678-26-2, Perfluoropentane 719-22-2
    Tetracosane
                                                        763-93-9,
     3-Hexen-2-one 814-78-8
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                              934-34-9, Benzothiazolone
     1138-52-9, 3,5-Di-tert-butylphenol 1331-43-7, Diethylcyclohexane
    1569-50-2, 3-Pentene-2-ol 1689-78-7, 2-tert-Butylthiophene 2142-64-5
    2219-82-1, 2-tert-Butyl-6-methylphenol 2245-30-9 2444-28-2,
    2,6-Di-tert-butyl-1,4-benzenediol 4130-42-1, 2,6-Di-tert-butyl-4-
                4281-40-7
                            4562-27-0, 4-1H)-Pyrimidinone
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     ethylphenol
     4920-99-4, 1-Ethyl-3-isopropylbenzene 7507-89-3 11071-47-9, Isooctene
                                 15356-74-8
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                                                           19377-95-8
     12002-48-1, Trichlorobenzene
    24270-68-6, 1,1,2,3-Tetrafluoropropane 25377-83-7, Octene
                                                                25378-22-7,
              25495-91-4, Bromohexane 27138-19-8, Ethylnaphthalene
    27195-67-1, Dimethylcyclohexane 27400-77-7, Nonadecene 27400-79-9,
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                  28351-09-9, Dimethylbenzaldehyde
     Dimethylnaphthalene 29253-36-9, Isopropylnaphthalene
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                         29730-67-4, Docosene
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     1-Methoxy-1-butene
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     4-Methyl-2,3-dihydrofuran
                              34464-40-9, Isononane
     Iodobromochloromethane 36207-23-5
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     Ethylbenzaldehyde
                        58501-92-1
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     103502-85-8
                  156000-89-4
                                156057-47-5
     RL: BIOL (Biological study)
        (lake water and potable water pollution by, Salmonella typhimurium
       toxicity in relation to, of East Lake, China)
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L10 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 1990:206735 HCAPLUS

DOCUMENT NUMBER:

112:206735

TITLE:

Preparation of .alpha.-arylacetic acid derivatives by

electrochemical oxidation

INVENTOR(S):

Shono, Tatsuya; Matsumura, Isahiro

PATENT ASSIGNEE(S):

SOURCE:

Japan

Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
					-
JP 01222078	A2	19890905		JP 1988-50233	19880302
RIORITY APPLN. INFO.	:		JP	1988-50233	19880302

OTHER SOURCE(S):

MARPAT 112:206735

AB A method for prepg. ACRR1COOR2 (A = aryl, (condensed) heterocyclic group; R,R1 = H, alkyl, alicyclic group, unsatd. hydrocarbon group, aryl, aralkyl; R2 = H or lower alkyl) involves electrochem. oxidn. of ACOCHRR1 in the presence of I (or its compd.) and an acetalization agent.

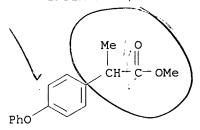
IT 126934-95-0P

RL: PREP (Preparation)

(prepn. of, electrochem., by oxidn. of ketone derivs.)

RN 126934-95-0 HCAPLUS

CN Benzeneacetic acid, .alpha.-methyl-4-phenoxy-, methyl ester (9CI) (CA INDEX NAME)



- IC ICM C25B003-02
- CC 72-9 (Electrochemistry)
- ST arylacetic acid prepn electrochem oxidn ketone
- IT Oxidation, electrochemical

(of ketones, in prepn. of arylacetic acid derivs.)

IT 74-88-4, uses and miscellaneous 149-73-5 7553-56-2, Iodine, uses and miscellaneous

RL: PROC (Process)

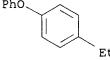
(electrochem. oxidn. of ketones in presence of, for prepn. of arylacetic acid derivs.)

RL: PROC (Process)

(electrochem. oxidn. of ketones in presence of, in prepn. of arylacetic acid derivs.)

IT 93-55-0 98-86-2, reactions 495-40-9 582-62-7 611-70-1 712-50-5 889-26-9 1515-95-3 2700-47-2 6315-96-4 10342-83-3 52129-98-3 59771-24-3 66952-37-2 80336-83-0 114012-26-9 120703-45-9

126934-92-7 126934-93-8 126916-32-3 RL: RCT (Reactant); RACT (Reactant or reagent) (electrochem. oxidn. of, in prepn. of arylacetic acid derivs.) 17380-78-8P 30012-51-2P 31508-44-8P 101-41-7P 2294-71-5P 57421-64-4P 57625-74-8P 59235-36-8P 50415-73-1P 52263-88-4P 73913-50-5P 83636-46-8P 72615-27-1P 66202-87-7P 61566-34**-**5P 126934-94-9P 125670-62-4P 120703-46-0P 103392-12-7P 126934-95-0P 126934-96-1P RL: PREP (Preparation) (prepn. of, electrochem., by oxidn. of ketone derivs.) L10 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 1990:97962 HCAPLUS DOCUMENT NUMBER: . 112:97962 Reactivity of ring-substituted ethylbenzenes in TITLE: reactions with cumylperoxy radicals Efimova, I. V.; Matvienko, A. G.; Opeida, I. A. AUTHOR(S): Inst. Fiz.-Org. Khim. Uglekhim., Donetsk, USSR CORPORATE SOURCE: Zhurnal Organicheskoi Khimii (1989), 25(4), 801-4 SOURCE: CODEN: ZORKAE; ISSN: 0514-7492 DOCUMENT TYPE: Journal LANGUAGE: Russian The reaction const. .rho.+ [detd. from .sigma.+ substituent consts. in p-RC6H4Et (I)] for the H-abstraction reaction with PhCMe2OO.bul. was more statistically reliable than .rho., reflecting the significant contribution of polar conjugation of R with the reaction center in transition-state stabilization. The abs. magnitude of .rho.+, on the basis of current and literature evaluations, decreased in the series RC6H4Me > I > RC6H4CHMe2, reflecting the Hammond reactivity-selectivity principle. ΙT 36207-23-5 RL: PRP (Properties) (abstraction reaction of hydrogen of, with cumylperoxy radical, kinetics of) 36207-23-5 HCAPLUS RN Benzene, 1-ethyl-4-phenoxy- (9CI) (CA INDEX NAME) CN Pho.



CC

abstraction hydrogen ethylbenzene deriv kinetics; substituent effect ST

hydrogen abstraction ethylbenzene; reaction const hydrogen abstraction ethylbenzene; benzene alkyl reactivity selectivity Reaction constant

IT

(for abstraction reaction of hydrogen from ethylbenzene derivs. with cumylperoxy radical)

ΙT Kinetics of abstraction reaction

22-13 (Physical Organic Chemistry)

(of hydrogen, from ethylbenzene derivs. with cumylperoxy radical)

IT Substituent effect

(on abstraction reaction of hydrogen from ethylbenzene derivs. with cumylperoxy radical)

937-30-4, p-Acetylethylbenzene 1515-95-3. 141-93-5, m-Diethylbenzene ΙT p-Methoxyethylbenzene 1585-07-5, p-Bromoethylbenzene 36207-23-5

Reyes 10/075,442

RL: PRP (Properties)

(abstraction reaction of hydrogen of, with cumylperoxy radical,

kinetics of)

7175-54-4, Cumylperoxy radical IT

RL: PRP (Properties)

(abstraction reaction of hydrogen of, with ethylbenzene derivs.,

kinetics of)

L10 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:

1989:594298 HCAPLUS

DOCUMENT NUMBER:

111:194298

TITLE:

Preparation of substituted phenylpropionaldehydes as

drug intermediates

INVENTOR(S):

Takahashi, Eiji; Ozaki, Kazuo; Yamada, Takao

PATENT ASSIGNEE(S):

Maruzen Petrochemical Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE ______ _____ _____ JP 63290837 A2 19881128 JP 1987-125683 19870525 19870525 PRIORITY APPLN. INFO .: JP 1987-125683

OTHER SOURCE(S):

MARPAT 111:194298

GΙ

The title compds. I (R = Ph, Me), useful as drug intermediates, were AΒ prepd. Dehydrogenation of 3-phenoxyphenylethane, followed by hydroformylation of the product in the presence of (Ph3P)3Rh(CO)H under H and CO, gave 2-(3-phenoxyphenyl)propionaldehyde with 91% selectivity and 99.1% conversion of 3-phenoxyphenylethylene.

36207-23-5, 4-Phenoxyphenylethane

Ι

RL: RCT (Reactant); RACT (Reactant or reagent) (dehydrogenation of)

RN36207-23-5 HCAPLUS

Benzene, 1-ethyl-4-phenoxy- (9CI) (CA INDEX NAME) CN

ICM C07C047-277 IC ICS C07C045-50

```
25-15 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
CC
     Section cross-reference(s): 1
     phenylpropionaldehyde prepn drug intermediate; fenoprofen intermediate
ST
     phenylpropionaldehyde prepn; hydroformylation phenylethylene
     Hydroformylation
IΤ
        (of phenylethylenes)
     17185-29-4, Hydridocarbonyltris(triphenylphosphine)rhodium
IT
     RL: CAT (Catalyst use); USES (Uses)
        (catalyst, for hydroformylation of phenylethylenes)
                 10568-38-4, 3-Methoxyphenylethane 36207-23-5,
     4-Phenoxyphenylethane 78427-95-9, 3-Phenoxyphenylethane
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (dehydrogenation of)
                   40138-66-7P
                                 54954-44-8P
                                               122801-83-6P
     20401-88-1P
ΤТ
     RL: SPN (Synthetic preparation); FORM (Formation, nonpreparative); PREP
     (Preparation)
        (formation of, in prepn. of drug intermediate)
IT
     630-08-0
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (hydroformylation, of phenylethylenes)
ΙT
     29679-58-1
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (intermediates for, prepn. of phenylpropionaldehydes as)
     626-20-0P 637-69-4P, 4-Methoxyphenylethylene 4973-29-9P,
     4-Phenoxyphenylethylene 63444-54-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and hydroformylation of)
                                                            123490-60-8P
                  59452-86-7P
                               59908-87-1P
                                              80793-26-6P
IT
     5405-83-4P
     123490-61-9P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, as drug intermediate)
L10 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
                         1989:231286 HCAPLUS
DOCUMENT NUMBER:
                         110:231286
                         Process for the preparation of 2-(substituted
TITLE:
                         phenyl) propionates as pharmaceuticals or their
                         intermediates
                         Takahashi, Eiji; Ozaki, Kazuo; Yamada, Takao
INVENTOR(S):
                         Maruzen Petrochemical Co., Ltd., Japan
PATENT ASSIGNEE(S):
                         Jpn. Kokai Tokkyo Koho, 8 pp.
SOURCE:
                         CODEN: JKXXAF
DOCUMENT TYPE:
                         Patent
                         Japanese
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                          APPLICATION NO.
                                                            DATE
     PATENT NO.
                      KIND
                            DATE
                            _____
     JP 63290842
                      A2
                            19881128
                                           JP 1987-125684
                                                            19870525
PRIORITY APPLN. INFO.:
                                        JP 1987-125684 ´
                         MARPAT 110:231286
OTHER SOURCE(S):
     Title compds. R10C6H4CHMeCO2R2 (R1 = Ph, Me; R2 = H, alkyl), e.g.
     phenopropylene, are prepd. by dehydrogenation of R10C6H4Et in the presence
     of a dehydrogenation catalyst at 400-700.degree. and carbonylation of the
     resultant R10C6H4CH:CH2 in H2O or an alc. in the presence of a Pd
```

catalyst. 3-PhOC6H4Et and H2O at 0.5 h-1 LHSV were charged in a reactor contg. tin oxide at 580.degree., to give 3-PhOC6H4CH:CH2 in 61.3% yield, and the product was autoclaved with Me2CHOH, PdCl2(PPh3)2, PPh3, and 35% HCl at 110.degree. and 120~kg/cm2 CO to give total 99.8% yield of 3-PhOC6H4CHMeCO2CHMe2 and 3-PhOC6H4(CH2)2CO2CHMe2 (93.2% and 6.4% selectivity, resp.).

IT 36207-23-5, 4-Phenoxyphenylethane
RL: RCT (Reactant); RACT (Reactant or reagent)
(dehydrogenation of, styrene deriv. from)

RN 36207-23-5 HCAPLUS

CN Benzene, 1-ethyl-4-phenoxy- (9CI) (CA INDEX NAME)

120824-60-4P, sec-Butyl 3-(4-phenoxyphenyl)propionate RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 120824-60-4 HCAPLUS

CN Benzenepropanoic acid, 4-phenoxy-, 1-methylpropyl ester (9CI) (CA INDEX NAME)

IC ICM C07C059-64 ICS B01J031-22; C07C051-14; C07C067-38; C07C069-734

CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds) Section cross-reference(s): 1

ST phenylpropionate prepn pharmaceutical intermediate

IT Pharmaceuticals

(intermediates for, phenylpropionates as)

IT Alkoxycarbonylation

(of styrene derivs., phenylpropionates from)

IT 1515-95-3, 4-Methoxyphenylethane 10568-38-4, 3-Methoxyphenylethane 36207-23-5, 4-Phenoxyphenylethane 78427-95-9, 3-Phenoxyphenylethane

RL: RCT (Reactant); RACT (Reactant or reagent) (dehydrogenation of, styrene deriv. from)

1T 4973-29-9P, 4-Phenoxyphenylethylene 10568-38-4P, 3-Methoxyphenylethane 78427-95-9P, 3-Phenoxyphenylethane

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and alkoxy carbonylation of)

IT 637-69-4P, 4-Methoxyphenylethylene

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and alkoxycarbonylation of)

IT 113777-15-4P, Isopropyl 3-(3-methoxyphenyl)propionate 120824-59-1P,

```
Isopropyl 3-(3-phenoxyphenyl)propionate 120824-60-4P, sec-Butyl
     3-(4-phenoxyphenyl)propionate
                                     120824-61-5P, sec-Butyl
     3-(4-methoxyphenyl)propionate
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of)
     120824-55-7P, Isopropyl 2-(3-phenoxyphenyl)propionate
                                                             120824-56-8P,
ΙT
     sec-Butyl 2-(3-phenoxyphenyl)propionate 120824-57-9P, sec-Butyl
     2-(4-methoxyphenyl)propionate
                                    120824-58-0P, Isopropyl
     2-(3-methoxyphenyl)propionate
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, as intermediate for drugs)
L10 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
                         1984:551531 HCAPLUS
DOCUMENT NUMBER:
                         101:151531
TITLE:
                         Thallium in organic synthesis. 62. A convenient
                         synthesis of .alpha.-arylsuccinic acids
                         Taylor, Edward C.; Conley, Richard A.; Katz, Alan H.;
AUTHOR(S):
                         McKillop, Alexander
                         Dep. Chem., Princeton Univ., Princeton, NJ, 08544, USA
CORPORATE SOURCE:
                         Journal of Organic Chemistry (1984), 49(20), 3840-1
SOURCE:
                         CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE:
                         Journal
                         English
LANGUAGE:
                         CASREACT 101:151531
OTHER SOURCE(S):
     .alpha.-Arylsuccinic acids are readily prepd. by oxidative rearrangement
     of .beta.-aroylpropionic acids (from arenes and succinic anhydride) with
     Tl(NO3)3- -HC(OMe)3. Application of the same reaction to
     .beta.-benzoylbutyric acid, .beta.-benzoylvaleric acid,
     1,2-dibenzoylethane and 1,4-dibenzoylbutane gives di-Me
     .alpha.-phenylglutarate, di-Me .alpha.-phenyladipate, di-Me
     .alpha.,.alpha.'-diphenylsuccinate, and di-Me .alpha.,.alpha.'-
     diphenyladipate, resp. Oxidative rearrangement of unsym.
     1,2-diaroylethanes gives unsym. di-Me .alpha.,.alpha.'-diarylsuccinates.
TΨ
     91266-19-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, by oxidative rearrangement of benzoylalkanoic acid with
        thallium trinitrate and tri-Me orthoformate)
RN
     91266-19-2 HCAPLUS
     Butanedioic acid, (4-phenoxyphenyl)-, dimethyl ester (9CI) (CA INDEX
CN
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CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
ST benzoylalkanoic acid oxidative rearrangement; benzoylalkane di oxidative rearrangement; alkanoic acid benzoyl oxidative rearrangement; alkane dibenzoyl oxidative rearrangement; oxidative rearrangement dibenzoylalkane

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benzoylalkanoic acid; thallium nitrate oxidative rearrangement
IT
    Oxidation
        (rearrangement and, of benzoylalkanoic acids and dibenzoylalkanes with
        thallium trinitrate and tri-Me orthoformate, diesters by)
     Rearrangement
ΙT
        (oxidative, of benzoylalkanoic acids and dibenzoylalkanes with thallium
        trinitrate and tri-Me orthoformate, diesters by)
                                           57498-54-1 67173-95-9
                 25333-24-8 39560-31-1
     5447-74-5
ΙT
     RL: PROC (Process)
        (conversion of, to enol ether)
                                       3153-44-4
                495-71-6 2051-95-8
                                                   3375-38-0
                                                               4144-62-1
                                         89229-73-2
                                                        91266-20-5 91266-21-6
                 36330-86-6
                              51908-41-9
     91266-22-7
                  91266-24-9
                               91266-25-0
                                            91266-26-1
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (oxidative rearrangement of, with thallium trinitrate and tri-Me
        orthoformate)
IT
     1496-23-7P
                10436-86-9P
                              15463-92-0P
                                              22248-26-6P
                                                            36265-44-8P
     81631-72-3P 91266-19-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, by oxidative rearrangement of benzoylalkanoic acid with
        thallium trinitrate and tri-Me orthoformate)
     7300-04-1P 19020-59-8P 91280-66-9P
IT
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, by oxidative rearrangement of dibenzoylalkane with thallium
        nitrate and tri-Me orthoformate)
ΙT
     149-73-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (thallium trinitrate and, oxidative rearrangement of benzoylalkanoic
        acids and dibenzoylalkanes by)
     13746-98-0
ΙT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (tri-Me orthoformate and, oxidative rearrangement of benzoylalkanoic
        acids and dibenzoylalkanes by)
L10 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN
                         1977:467848 HCAPLUS
ACCESSION NUMBER:
                         87:67848
DOCUMENT NUMBER:
TITLE:
                         .alpha.-Aryl-substituted propionic acids
                         Takeda, Makoto; Uchide, Masayuka; Iwane, Hiroshi
INVENTOR(S):
PATENT ASSIGNEE(S):
                         Mitsubishi Petrochemical Co., Ltd., Japan
SOURCE:
                         Ger. Offen., 43 pp.
                         CODEN: GWXXBX
DOCUMENT TYPE:
                         Patent
                         German
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                           APPLICATION NO.
    PATENT NO.
                     KIND
                           DATE
                                                            DATE
                      ____
     DE 2646792
                            19770428
                                           DE 1976-2646792 19761016
                      A1
                       C2
     DE 2646792
                            19850509
                                           JP 1975-127787
                                                            19751023
     JP 52051338
                       A2
                            19770425
     JP 59035899
                       В4
                            19840831
                       В4
                            19851008
                                           JP 1976-91523
                                                            19760731
     JP 60045171
     GB 1565235
                       Α
                            19800416
                                           GB 1976-43221
                                                            19761018
```

FR 2328689

FR 2328689

A1

В1

19770520

19830121

FR 1976-32143

19761025

GΙ

$$_{\text{MeO}}$$
 CH=CH₂ CHMeCO₂Et

AB Alkoxycarbonylation by alcs. and CO and carboxylation by H2O and CO of vinylarenes were catalyzed by Pd complexes. Thus, I in EtOH contg. (Ph3P)2PdCl2, BF3.cntdot.Et2O, and Ph2NNO was autoclaved with CO to give 69% II.

IT 61001-75-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and hydrolysis of)

RN 61001-75-0 HCAPLUS

CN Benzeneacetic acid, .alpha.-methyl-4-phenoxy-, ethyl ester (9CI) (CA INDEX NAME)

IC C07C069-76

CC 23-16 (Aliphatic Compounds)

Section cross-reference(s): 25, 26

ST alkoxycarbonylation vinylarene catalyst; carboxylation vinylarene catalyst; propionic acid aryl

IT Alkoxycarbonylation catalysts

(palladium complexes, for vinylarenes)

IT 5338-96-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(Grignard reaction of)

IT 391-08-2 716-89-2 3139-85-3 4973-29-9 10473-10-6 30215-52-2

54314-33-9 63444-51-9 63444-52-0 63444-53-1 6

63444-55-3 63444-56-4 63444-57-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(alkoxycarbonylation of)

IT 109-63-7 603-35-0, uses and miscellaneous 7647-10-1 13965-03-2 14977-08-3

RL: CAT (Catalyst use); USES (Uses)

(catalyst, for alkoxycarbonylation of vinylarenes)

IT 62049-65-4

RL: RCT (Reactant); RACT (Reactant or reagent)

```
(dehydrochlorination of)
IT
     5002-42-6
                42771-85-7
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (hydride redn. of)
     40150-92-3P
                  56430-69-4P 63444-59-7P
ΙT
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and dehydration of)
     56430-44-5P
ΙT
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and dehydrohalogenation of)
     37961-57-2P
                 41283-72-1P 61001-75-0P
                                            61566-34-5P
IT
     63444-58-6P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and hydrolysis of)
IT
     3585-53-3P 5005-84-5P 6908-47-0P 15687-27-1P 17692-38-5P
                  23981-80-8P 29679-58-1P 36141-62-5P 36950-96-6P
     22410-97-5P
                 51106-57-1P
     41604-03-9P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of)
L10 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
                         1976:592403 HCAPLUS
DOCUMENT NUMBER:
                         85:192403
                         Phenoxyphenylbutyric acid derivatives
TITLE:
                         Gante, Joachim; Kurmeier, Hans A.; Schacht, Erich;
INVENTOR(S):
                        Mehrhof, Werner; Wild, Albrecht
                        Merck Patent G.m.b.H., Fed. Rep. Ger.
PATENT ASSIGNEE(S):
                        Ger. Offen., 51 pp.
SOURCE:
                        CODEN: GWXXBX
DOCUMENT TYPE:
                        Patent
                        German
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
```

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
	-		
DE 2509891	A1	19760923	DE 1975-2509891 19750307
SE 7602744	Α	19760908	SE 1976-2744 19760227
AU 7611555	A1	19770908	AU 1976-11555 19760302
AU 497104	B2	19781130	
BE 839211	A2	19760906	BE 1976-7000789 19760304
FR 2302731	A1	19761001	FR 1976-6130 19760304
DK 7600979	. A	19760908 .	DK 1976-979 19760305
NL 7602341	Α	19760909	NL 1976-2341 19760305
ZA 7601340	Α	19770223	ZA 1976-1340 19760305
ES 445793	A 1	19770901	ES 1976-445793 19760305
GB 1494462	Α	19771207	GB 1976-8980 19760305
AT 7601624	Α	19790515	AT 1976-1624 19760305
JP 51125348	A2	19761101	JP 1976-25990 19760308
PRIORITY APPLN. INFO.	:		DE 1975-2509891 19750307
GT			

$$R^1$$
 CHMeCH₂CO₂R

The title compds: (I; R = H, Me, Et, Pr, Bu, tert-Bu, Et2NCH2CH2, Me2NCH2CH2; R1 = H, Br, Cl, F), useful as analgesics and autipyretics, are prepd. by a variety of std. procedures. Thus, redn. and hydrolysis of 4-(4-ClC6H4O)C6H4CMe(OH)CH2CO2Et with 67% aq. HI in AcOH 1 hr at 150.degree. gives I (R = H, R1 = Cl).

IT 61001-75-0

RL: RCT (Reactant); RACT (Reactant or reagent)
 (chlorination of)

RN 61001-75-0 HCAPLUS

CN Benzeneacetic acid, .alpha.-methyl-4-phenoxy-, ethyl ester (9CI) (CA INDEX NAME)

IC C07C069-76

CC 25-18 (Noncondensed Aromatic Compounds)

ST phenoxyphenylbutyrate analgesic antipyretic; butyrate halophenoxyphenyl analgesic antipyretic

IT Analgesics

Antipyretics

([(halophenoxy)phenyl]butyrate acid derivs.)

IT 55102-99-3

RL: RCT (Reactant); RACT (Reactant or reagent)
 (Grignard reaction with K 3-iodobutyrate)

IT 61001-87-4 61001-88-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(Grignard reaction with carbon dioxide)

IT 78-09-1 124-38-9, reactions 541-41-3 61001-86-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(Grignard reaction with halophenyl ethers)

IT 61001-75-0

RL: RCT (Reactant); RACT (Reactant or reagent)
 (chlorination of)

IT 61001-98-7

RL: RCT (Reactant); RACT (Reactant or reagent)
 (deamination and fluoroamination of)

IT 61001-97-6

RL: RCT (Reactant); RACT (Reactant or reagent)
 (deamination of)

IT 61001-90-9 61001-91-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(decarboxylation of)

IT 60467-98-3 61001-74-9

RL: RCT (Reactant); RACT (Reactant or reagent)

```
(hydrogenation and hydrolysis of)
                 61024-36-0
     61001-76-1
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (hydrogenation of)
     61001-89-6
ΙT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (hydrolysis and decarboxylation of)
     58727-42-7 58727-45-0
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (hydrolysis and redn. of)
     61001-78-3 61001-79-4
                               61001-80-7
                                             61001-81-8
                                                          61001-82-9
TΤ
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (hydrolysis of)
     58727-63-2 61001-94-3
ΙT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (oxidn. of)
     61001-57-8P
                   61001-61-4P
IT
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and esterification of)
                                                              61001-67-0P
ΙT
     61001-58-9P
                  61001-64-7P
                                 61001-65-8P
                                                61001-66-9P
                   61001-72-7P
                                 61001-73-8P
     61001-71-6P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and hydrolysis of)
     61001-59-0P
                  61001-60-3P 61001-63-6P
                                               61001-68-1P
                                                              61001-70-5P
ΙT
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of)
ΙT
     1099-45-2
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with 4-(1-bromoethyl)-4'-fluorodiphenyl ether)
     61024-35-9
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with carbon monoxide)
IT
                 7425-49-2
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with chlorophenyl phenyl ether)
IT
     61001-95-4
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with diethylamine)
TT
     352-34-1
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with disodium 3-(4-hydroxyphenyl)butyrate)
TT
     61001-77-2
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with ethyl [triphenylphosphoranylidene)acetate)
     61001-83-0
                  61001-84-1
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with ethyl bromobutyrate)
     61024-34-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with fluoroiodobenzene)
ΙT
     61001-93-2
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with formic acid and with nickel carbonyl)
     7005-72-3
ΙT
     RL: RCT (Reactant); RACT (Reactant or reagent)
```

```
(reaction with halobutyrates)
IT
     13463-39-3
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with halophenyl ethers)
     61001-92-1
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
     (reaction with nickel carbonyl)
     100-35-6
                107-99-3
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with sodium [(chlorophenoxy)phenyl]butyrate)
IT
     61001-96-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with sodium fluorophenolate)
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction with tert-butyl alc. and propanol)
TΥ
     371-35-7
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction witth sodium (iodophenyl)butyrate)
IT
     64-18-6, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (with 4-chlorophenyl 4-(2-propenyl)phenyl ether)
     630-08-0, reactions
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (with [(chlorophenoxy)phenyl]propanol)
IT
     109-89-7, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (with chloroethyl [(chlorophenoxy)phenyl]butyrate)
L10 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
                         1972:144751 HCAPLUS
DOCUMENT NUMBER:
                         76:144751
TITLE:
                         Effect of introducing ethyl radical to benzene
                         derivatives on their odorant properties
                         Wizner, Iwonna
AUTHOR(S):
CORPORATE SOURCE:
                         Inst. Chem. Przem., Warsaw, Pol.
                         Tluszcze, Srodki Piorace, Kosmetyki (1971), 15(5),
SOURCE:
                         20-30
                         CODEN: TSPKBZ; ISSN: 0372-1795
                         Journal
DOCUMENT TYPE:
LANGUAGE:
                         Polish
     The effects of Et groups on odorant properties was studied in large no. of
     esters, alcs., aldehydes, and ketones, as well as in p-
     ethyldiphenylmethane (I) and p-ethyldiphenyl ether. The most interesting
     scent was found in p-ethylacetophenone, I, Me p-ethylbenzoate, and
     p-ethylphenyl-.beta.-butyl alc. Many of the compds. synthesized are not
     found in literature.
TT
     36207-23-5
     RL: PRP (Properties)
        (odors of)
     36207-23-5 HCAPLUS
ŔN
     Benzene, 1-ethyl-4-phenoxy- (9CI) (CA INDEX NAME)
CN
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PhO
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CC
     62 (Essential Oils and Cosmetics)
     ethyl groups odorant; ester odorant ethyl effect; alc odorant ethyl
ST
     effect; aldehyde odorant ethyl effect; ketone odorant ethyl effect
    Molecular structure-property relationship
ΙT
        (benzene ethyl derivs., odors)
    Alcohols, properties
ΙT
     Aldehydes, properties
     Esters, properties
     Ketones, properties
     RL: PRP (Properties)
        (odors of, ethyl radicals in relation to)
    Odor and Odorous substances
ΙT
        (of benzene ethyl derivs.)
                                                     36207-03-1 36207-04-2
     768-59-2 4748-78-1
                           14062-20-5
                                        22545-13-7
ΙT
                 36207-06-4
                              36207-07-5
                                           36207-08-6
                                                        36207-09-7
     36207-05-3
    .36207-10-0
                 36207-13-3
                              36207-14-4
                                           36207-15-5
                                                        36207-16-6
                              36305-78-9
     36207-18-8 36207-19-9
     RL: PRP (Properties)
        (odor of)
                          7364-20-7 36207-23-5
     620-85-9 937-30-4
ΙT
     RL: PRP (Properties)
        (odors of)
     36207-25-7P
ΙT
     RL: PREP (Preparation)
        (prepn. of)
```